



Kentucky Public Health

Prevent. Promote. Protect.

Public Health IT Infrastructure Modernization

Kentucky 8th Annual eHealth Summit

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Bowling Green, Kentucky

Kraig E. Humbaugh, MD, MPH

Senior Deputy Commissioner, Kentucky Department for Public Health





Public Health IT Modernization Overview:

- The Department for Public Health is upgrading its information technology infrastructure using advanced computerized technology that will strengthen our service lines, patient safety and other quality improvement efforts, facilitate the alignment of quality measures and streamline billing practices.
- Reasons to modernize in the new health environment:
 - To have improved ability perform population health queries
 - To gather data that drive and measure public health goals
 - To reduce errors in the data
 - To improve patient care and safety at local health departments
 - To be able to bill all appropriate payors
 - To provide greater transparency



kyhealthnow 2019 Goals

- Reduce Kentucky's rate of uninsured individuals to less than 5%.
- Reduce Kentucky's smoking rate by 10%.
- Reduce the rate of obesity among Kentuckians by 10%.
- Reduce Kentucky cancer deaths by 10%.
- Reduce cardiovascular deaths by 10%.
- Reduce the percentage of children with untreated dental decay by 25% and increase adult dental visits by 10%.
- Reduce deaths from drug overdose by 25% and reduce by 25% the average number of poor mental health days of Kentuckians.

<http://governor.ky.gov/healthierky/kyhealthnow>

Electronic Health Records (EHR) System

- **Statewide EHR System** – Requirements meetings are in progress with departmental and local health department staff to design and implement the EHR. Pilot users include Green River District HD, Barren River, District HD Louisville Metro Health & Wellness, Anderson Co. HD, Lincoln Co. HD, Clark Co. HD.
- **Dental Pilot** - launched on 8/24/15 to provide a module for dental services . Pilot sites are Pike County, and Lincoln Trail District. Future sites are Purchase District and Clark, Jessamine, Lewis, and Lawrence county health departments.
- **Meaningful Use Incentive Payments** to local health departments' providers – *59 of 60 providers have received payment. These payments total \$1,253,750 worth of incentive funds.*



Modernizing Business Operations

- **Enterprise Business Suite** - Financial Software System for the Department for Public Health's Administrative and Financial Management Division
 - Goal: Implement a state of the art Enterprise Resource Planning System (ERP)
 - To benefit the state and local health departments, with focus on improved relevance, timeliness and accuracy of data



Communicable Disease Systems Initiatives

- **Transition to new Immunization Registry** – As part of phase I, all local health departments are enrolled and are using the system, entering historical vaccine, entering current shots administered, and printing certificates. Vaccine For Children (VFC) providers are being enrolled. Field staff are the points of contact.

Phone: 502-564-0038 and Email:

KYIRHelpdesk@ky.gov

Kentucky Immunization Registry

Functionality

- Enhanced Patient Search Capability
- Accurate Recommender and Forecaster for vaccinations
- Reminder/Recall Tool
- Print Certificates for school entry, employment, patient records and medical charts.
- Built in Reports
 - Providers and Ky. Immunization Program can calculate statistics, flag patients that seem like a duplicate, run patient rosters, verify VFC eligibility is being recorded accurately and many more examples.
- Inventory Management for VFC Providers



Communicable Disease Systems Initiatives

- Electronic Laboratory Reporting of certain diseases and multidrug resistant organisms (MDROs) –
 - 902 KAR 2:020 was recently revised to require routine electronic reporting of lab results of certain diseases like hepatitis B & C and varicella and of certain MDROs like Methicillin-resistant *Staphylococcus aureus* (MRSA) and Carbapenem-resistant *Enterobacteriaceae* (CRE) starting October 2016
 - The Kentucky Health Information Exchange (KHIE) is the conduit for that electronic transfer of data



Electronic Death Registration System

- The Kentucky Electronic Death Registration System (KY-EDRS) was developed by OVS in collaboration with the Funeral Directors Association of Kentucky, the Kentucky Coroner's Association and the Kentucky Medical Association.
- During the 2013 General Assembly, SB 52 was passed, requiring all death certificates in Kentucky to be filed using KY-EDRS, beginning January 1, 2015.
- Currently, Registered users of KY-EDRS consist of:
 - 1,580 Medical Facilities
 - 1,013 Funeral Facilities
 - All 120 County Coroner's Offices
 - 8,307 Total Registered users



Improvements Using KY-EDRS

- Before

- About 30 days from date of death to issuance of death certificate, on avg.
- Number of errors on death certificates in January 2012 = 748

- After

- About 15 days from date of death to issuance of death certificate, on avg.
- Number of errors on death certificates in March 2015 = 26



Advantages Outweigh Challenges

- Challenges:
 - Funding, especially up-front costs
 - Requires a new skill set for public health
 - Preserving human “connectors”
 - Making sure data “thinking” doesn’t get lost in data “mining”
 - Increasing complexities of levels of data sharing, access to data, and data ownership



Advantages Outweigh Challenges

- Advantages:
 - Improving efficiency
 - Improving data reliability
 - Increasing access to data
 - Strengthening data sharing and linking
 - Ultimately, improving health



Kraig E. Humbaugh, M.D., M.P.H.
Deputy Commissioner
Department for Public Health
Cabinet for Health & Family Services
(502) 564-3970
kraig.humbaugh@ky.gov



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